105240 EP1601860

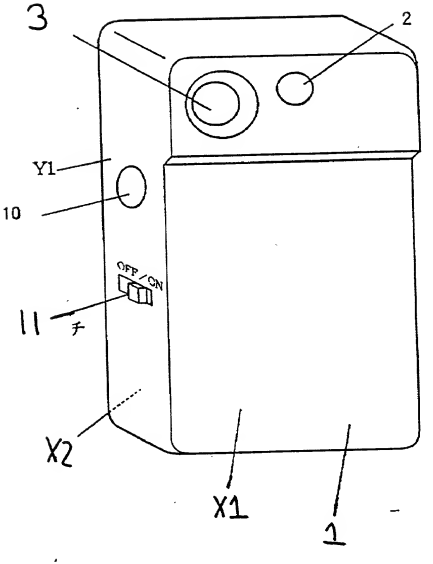
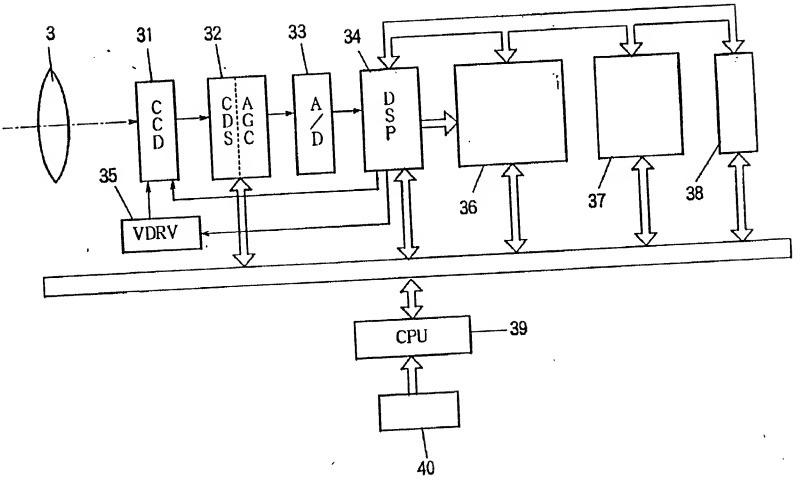



FIG. 1

TOSHIBA ETD11860

FIG. 2



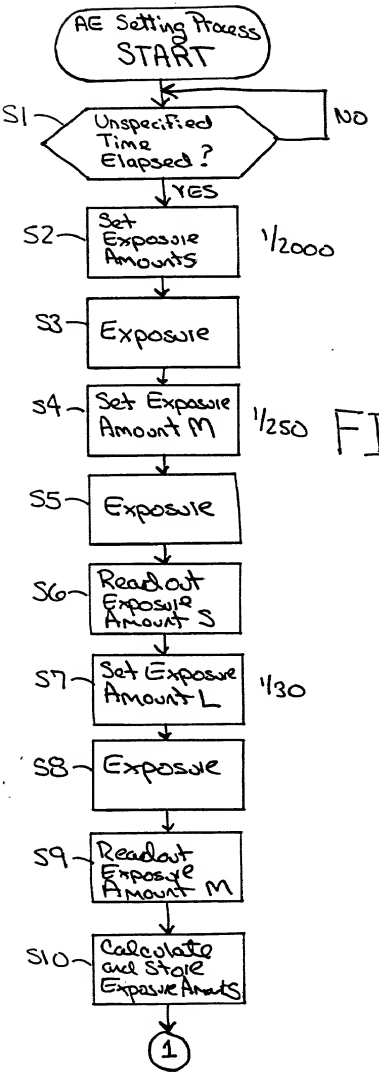

AE Setting Process START
S1
Unspecified Time Elapsed ?
NO
YES
S2
Set Exposure Amounts
1/2000
S3
Exposure
S4
Set Exposure Amount M
1/250
S5
Exposure
S6
Readout Exposure Amount S
S7
Set Exposure Amount L
1/30
S8
Exposure
S9
Readout Exposure Amount M
S10
Calculate and Store Exposure Amounts
1

FIG. 3a

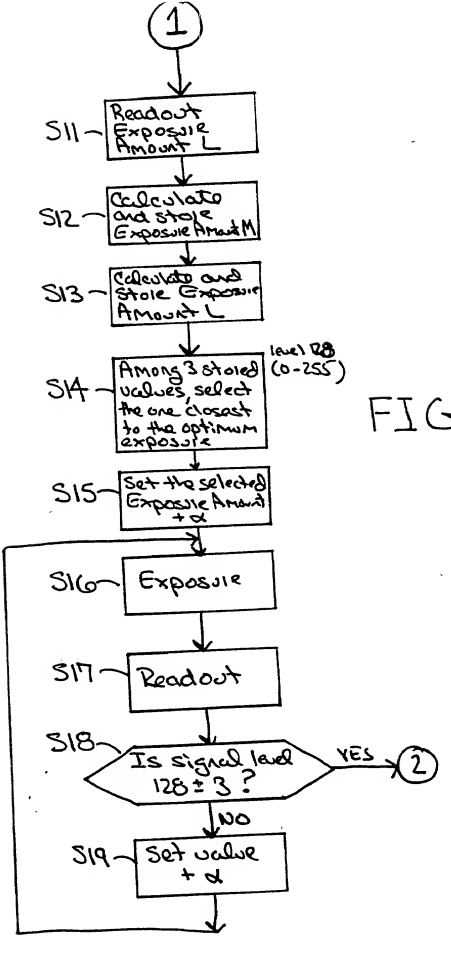

1
S11
Readout Exposure Amount L
S12
Calculate and store Exposure Amount M
S13
Calculate and store Exposure Amount L
S14
Among 3 stored values, select the one closest to the optimum exposure
level 128 (0-255)
S15
Set the selected Exposure Amount + α
S16
Exposure
S17
Readout
S18
Is signal level 128 ± 3 ?
YES
2
NO
S19
Set value + α

FIG. 3b

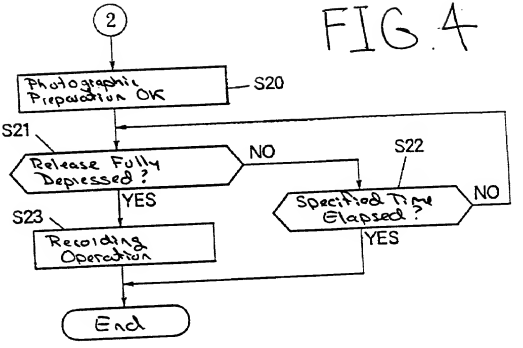
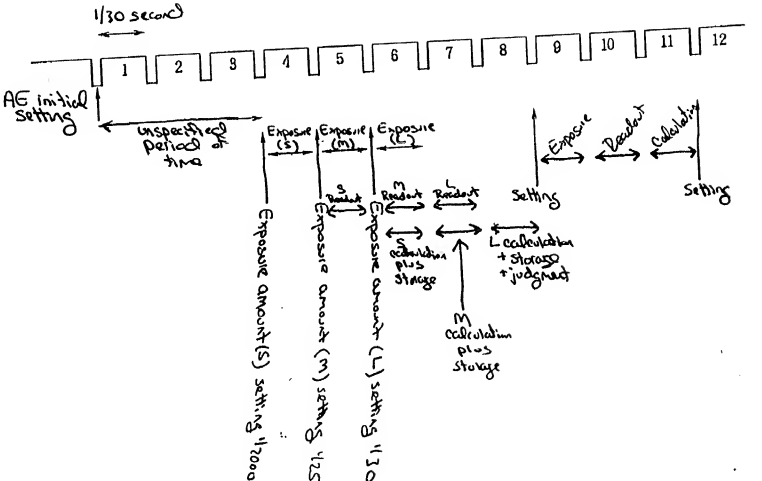



FIG. 4

| Level E | α (EV) |
|---|---|
| over 200 | $-\frac{3}{2}$ |
| $160 \leqq E < 200$ | $-1.0$ |
| $140 \leqq E < 160$ | $-\frac{1}{2}$ |
| $132 \leqq E < 140$ | $-\frac{1}{4}$ |
| $125 \leqq E < 132$ | |
| $118 \leqq E < 125$ | $+\frac{1}{4}$ |
| $100 \leqq E < 118$ | $+\frac{1}{2}$ |
| $70 \leqq E < 100$ | $+1.0$ |
| less than 70 | $+\frac{3}{2}$ |

FIG. 5

FIG.6


1/30 second
1
2
3
4
5
6
7
8
9
10
11
12
AE initial setting
unspecified period of time
Exposure (S)
Exposure (M)
Exposure (L)
Exposure amount (S) setting
Exposure amount (M) setting
Exposure amount (L) setting
S Readout
M Readout
L Readout
S calculation plus storage
M calculation plus storage
L calculation + storage + judgment
Setting
Exposure
Readout
Calculation
Setting

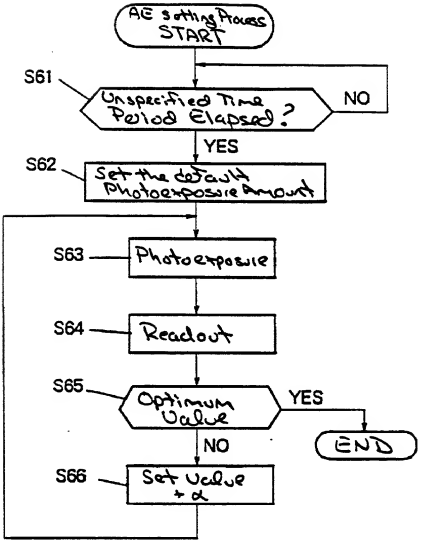



FIG. 7

Prior Art

TOSHIBA EXHIBIT 1060

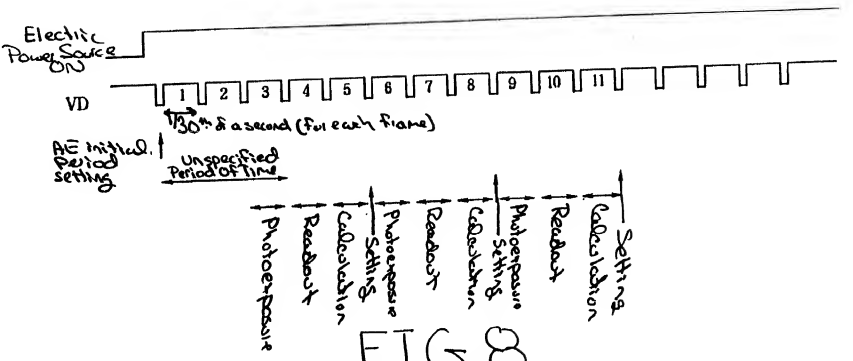



FIG. 8

Prior Art